

## **CLAIMS**

- 2 What is claimed is:
- 4 SJO 0 71.

An apparatus for packaging goods in a box, comprising:

(a) a box erecting apparatus for erecting a box to receive at least one

6 good; and

10

16

- (b) an elevator lift apparatus operatively connected below the box erecting apparatus, such that the elevator lift apparatus is positioned to lift at least one good into the erected box.
  - 2. The apparatus of claim 1, wherein the box is an open-bottomed box.
    - 3. The apparatus of claim 2, wherein the box is a cardboard box.
- 12 4. The apparatus of claim 2, further comprising a finishing apparatus for sealing the open-bottomed box, wherein the finishing apparatus is operatively

  14 connected to the box erecting apparatus.
  - 5. The apparatus of claim 4, further comprising a magazine for storing open-bottomed boxes adapted to be erected by the box erecting apparatus.
- 6. The apparatus of claim 5, further comprising a labeling apparatus operatively connected to the finishing apparatus.
- 7. The apparatus of claim 6, further comprising a first conveyor defining a first conveyor plane positioned to deliver goods to the elevator lift apparatus.
- 8. The apparatus of claim 7, further comprising a second conveyor defining a second conveyor plane positioned to transport the goods through the finishing and labeling apparatuses.
- 9. The apparatus of claim 8, wherein the box erecting apparatus comprises at least one suction cup.

14

- 10. An apparatus for packaging goods in an open-bottomed container, the apparatus comprising:
- (a) an elevator lift apparatus for lifting at least one good through abottom of the open-bottomed container; and
- (b) a support mechanism operatively connected to the elevator lift
   apparatus for supporting the at least one good in the open-bottomed container.
- The apparatus of claim 10, wherein the support mechanism further acts as a guide mechanism to funnel the goods into the open-bottomed container.
- 12. The apparatus of claim 10, further comprising a box erector apparatus to erect an open-bottomed container.
  - 13. The apparatus of claim 12, further comprising:
- 12 (a) a closing mechanism operatively attached to the elevator lift apparatus for closing a top portion of the open-bottomed container; and
  - (b) a finishing apparatus operatively attached to the closing mechanism for sealing a top portion of the open-bottomed container.
- 16 14. The apparatus of claim 13, wherein the support mechanism for the box comprises a first and second support mechanism.
- 18 15. The apparatus of claim 14, further comprising a first conveyer, operatively connected to the elevator lift apparatus, the first conveyer having a starting end and a finishing end.
- 16. The apparatus of claim 15, further comprising a second conveyer situated at the finishing end of the first conveyor, the second conveyor positioned on a second conveyer plane.
- The apparatus of claim 16, the first conveyer belt further comprising a

left belt and a right belt, the left belt and the right belt defining an open space.

- 2 18. The apparatus of claim 17, wherein the elevator lift apparatus is operatively connected in the open space of the first conveyor at the finishing end, the
- elevator lift apparatus having a first position on a plane just lower than the first
   conveyer plane and having a second position situated generally level with the second
   conveyer plane.
- 19. The apparatus of claim 18, wherein the second conveyer plane is on a higher level than the first conveyer plane.
- 20. The apparatus of claim 19, further comprising a stopping block
  situated at the finishing end of the first conveyer adapted to stop the goods over the elevator lift apparatus.
- 12 21. The apparatus of claim 20, further comprising a pushing mechanism operatively connected to the first conveyer for pushing the open-bottomed container off of the supporting mechanism onto the second conveyer.
- The apparatus of claim 21, further comprising a labeling apparatus operatively connected to the second conveyor.
- 23. The apparatus of claim 22, further comprising a guide mechanism operatively connected to the elevator lift apparatus for guiding the goods into the unfolded open-bottomed container.
- 24. The apparatus of claim 10, the apparatus further comprising a meter mechanism operatively connected to the elevator lift apparatus situated to count the goods moving from the starting end to the finishing end.
- 25. The apparatus of claim 13, wherein the open-bottomed container is a cardboard box.

2			
	26.	The a	pparatus of claim 24, further comprising a cardboard box
4	magazine for storing multiple boxes accessibly positioned to the box erecting		
	apparatus, the box having a first and second minor flap and a first and second major		
6	flap.		
	27.	The apparatus of claim 26, further comprising:	
8		(a)	a first flap folding mechanism operatively attached to the first
	conveyor at the finishing end adapted to fold the first and second minor flaps of the		
10	open-bottomed container; and		
		(b)	a second flap folding mechanism operatively attached to the
12	conveyer for folding the first and second major flaps of the open-bottomed container.		
	28.	A me	thod of packaging goods in a box, the method comprising:
14		(a)	actuating an elevator lift apparatus to raise the goods into the
	box; and		
16		(b)	supporting the goods in the box after the elevator lift apparatus
	is lowered.		
18	29.	The r	nethod of claim 28, further comprising closing a top portion of
	the box.		
20	30.	The method of claim 28, further comprising:	
		(a)	providing the goods to be packaged;
22		(b)	placing the goods on an first conveyor; and

moving the goods with a first conveyor to a position over the

(c)

top of the elevator lift apparatus.

24

- The method of claim 28, further comprising counting the goods to 31. confirm the appropriate number. 2 32. The method of claim 28, wherein the box is an open-bottomed 4 cardboard box. The method of claim 30, further comprising sealing a top portion of the 33. box. 6 The method of claim 33, further comprising: 34. stacking the sealed boxes enclosing the goods onto a palette; and 8 (a) packaging the stacked open-bottomed containers on the palette. (b) A method for packaging goods in an open-bottomed container, wherein 10 the open-bottomed container is an open-bottomed cardboard box with four upper flaps, comprising 12 unfolding the open-bottomed cardboard box; (a) holding the unfolded open-bottomed cardboard box above the (b) 14 elevator lift apparatus; (c) activating an elevator lift apparatus to raise the goods into the 16 open-bottomed cardboard box; and 18 (d) folding the four upper flaps of the open-bottomed cardboard box.
- open-bottomed containers by a flat folded cardboard open-bottomed container dispensing apparatus.

36.

20

The method of claim 35, further comprising providing multiple the

- 37. A method for delivering goods comprising transporting goods
- packaged in open-bottomed containers on a palette whereby the goods may be accessed by lifting the open-bottomed container.

C3>